AZARDOUS MATERIALS DATA SHE (PLEASE COMPLETE APPLICABLE SECTIONS)

PRODUCT NAME, NUMBER, SYNONYM: DOUGLAS ETCHANT 4L, CEE-BEE A-68
ANUFACTURER'S NAME: Chemetron Corp., Inorganic Chemicals Div., CEE-BEE CHEM.
ANUFACTURER'S ADDRESS: 9520 E. CeeBee Drive, Downey, CA 90241
PROCEDURE IN CASE OF BREAKAGE OR LEAKAGE: Flush with water
RANSPORTATION AND STORAGE REQUIREMENTS: Avoid prolonged storage at temperatures
below 32°F to prevent crystallization of product
IRST AID TREATMENT:
. skin contact: Flush with water
Di la della contra Carla contra de la contra del contra de la contra del
B. EYE CONTACT: Flood with water. Seek medical attention immediately.
. INHALATION: Remove to fresh air.
. INHALATION:
Administer vinegar or citrus juice. Seek
medical attention immediately.
PHYSIOLOGICAL PROPERTIES:
A ACUTE ORAL TOXICITY: corrosive to mucous linings
. LOCAL EFFECTS UPON EYES: COTTOSIVE to eyes
LOCAL EFFECTS UPON SKIN: corrosive to skin
estimate of acute hazard by inhalation (volatile materials): Slight; active ingredients
non-volatile
. WARNING PROPERTIES (ODOR, IRRITATION TO EYES, NOSE OR THROAT): Characteristic odor of sult
. WARNING PROPERTIES (ODOR, IRRITATION TO EYES, NOSE OR THROAT):
ESTIMATED THRESHOLD LIMIT VALUE (IF NOT ON CURRENT LIST BY AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTR
HYGIENISTS):
· · · · · · · · · · · · · · · · · · ·
CHEMICAL AND PHYSICAL PROPERTIES:
s. SPECIFIC GRAVITY (WATER = 1) 1.38 B. VAPOR DENSITY (AIR =1) Same as v
. VAPOR PRESSURE mm Hg AT 25°C. 23 D. pH above 13
CORROSIVE ACTION ON COMMON MATERIALS SUCH AS: ALUMINUM, MAGNESIUM, PLEXIGLAS, RUBBER, LACQUERS, ENAMELS, FABR
attacks aluminum, many lacquers and enamels, rubber and some fabrics
attacks aluminum, many lacquers and enamels, rubber and some fabr

G.	FOR MIXTURES GIVE THE PERCENTAGE COMPOSITION OF	FINGREDIENTS:
	COMPOUND	PERCENT
	caustic soda	20-30
	sulfur	10-20
	water	-balance-
OT E:	GENERALIZATIONS SUCH AS PETROLEUM HYDROCARBO	ONS, ALCOHOL, KETONES, CHLORINATED HYDROCARBONS, TTC.,
REN	OT ADEQUATE FOR TOXICOLOGICAL EVALUATION. PROP	PER CHEMICAL NAMES MUST BE KNOWN.
н.	DOES THE MATERIAL GENERATE HEAT THROUGH POLYM	MERIZATION OR CONDENSATION?
PR 	ECAUTIONS FOR NORMAL CONDITIONS OF USE: AVO	id contact with skin and eyes
RE	COMMENDED PROTECTIVE EQUIPMENT: Waterpr	oof gloves and boots, eye protection
	-does not fl	ash-
A.	-does not fl	ash- up;if f.p. Changes During Evaporation Give Dat
A.	-does not fl. FLASHPOINT °F: CLOSED CUP; OPEN CO	ash- up; IF F.P. CHANGES DURING EVAPORATION GIVE DAT -non-explosive compared to the compar
 А. В.	-does not fl. FLASHPOINT °F: CLOSED CUP; OPEN CO	ash- up; IF F.P. CHANGES DURING EVAPORATION GIVE DAT -non-explosive OWER; NOX
— А. В.	-does not flammable; auto igni	ash- up;if f.p. Changes During Evaporation give Dat
A. B. C. D. E.	-does not fl FLASHPOINT °F: CLOSED CUP; OPEN CO EXPLOSIVE LIMITS (% VOL. AIR): SUSCEPTIBILITY TO SPONTANEOUS HEATINGS: FIRE POINT °F non-flammable; AUTO IGNI VAPOR DENSITY Same as water	ash- tup; if f.p. Changes during Evaporation give date -non-explosive OWER; upper Es; no X ITION TEMPERATURE of non-flammable
A. B. C. D. F.	-does not fl FLASHPOINT °F: CLOSED CUP; OPEN CO EXPLOSIVE LIMITS (% VOL. AIR): SUSCEPTIBILITY TO SPONTANEOUS HEATINGS: FIRE POINT °F non-flammable; AUTO IGNI VAPOR DENSITY same as water WHAT PRODUCTS MIGHT BE FORMED IN THE EVENT OF	ash- up; IF F.P. CHANGES DURING EVAPORATION GIVE DAT -non-explosive OWER; UPPER ES; NOX ITION TEMPERATURE °F non-flammable FIRE OR ABNORMAL TEMPERATURES?
A. B. C. D. F.	-does not fl FLASHPOINT °F: CLOSED CUP; OPEN CO EXPLOSIVE LIMITS (% VOL. AIR): SUSCEPTIBILITY TO SPONTANEOUS HEATINGS: FIRE POINT °F non-flammable; AUTO IGNI VAPOR DENSITY same as water WHAT PRODUCTS MIGHT BE FORMED IN THE EVENT OF	ash- up; IF F.P. CHANGES DURING EVAPORATION GIVE DAT -non-explosive OWER; UPPER ES; NOX ITION TEMPERATURE °F non-flammable FIRE OR ABNORMAL TEMPERATURES?
B. C. D. E. F.	-does not fl FLASHPOINT °F: CLOSED CUP; OPEN CO EXPLOSIVE LIMITS (% VOL. AIR): SUSCEPTIBILITY TO SPONTANEOUS HEATINGS: FIRE POINT °F non-flammable_; AUTO IGNI VAPOR DENSITY same as water WHAT PRODUCTS MIGHT BE FORMED IN THE EVENT OF SUITABLE EXTINGUISHING AGENTS: non-	ash- up; IF F.P. CHANGES DURING EVAPORATION GIVE DAT -non-explosive OWER; UPPER ES; NOX ITION TEMPERATURE °F non-flammable FIRE OR ABNORMAL TEMPERATURES?
B. C. D. F. G. IN	-does not fl FLASHPOINT °F: CLOSED CUP; OPEN CO EXPLOSIVE LIMITS (% VOL. AIR): SUSCEPTIBILITY TO SPONTANEOUS HEATINGS: FIRE POINT °F non-flammable_; AUTO IGNI VAPOR DENSITY same as water WHAT PRODUCTS MIGHT BE FORMED IN THE EVENT OF SUITABLE EXTINGUISHING AGENTS: non- FORMATION FURNISHED BY: Richard C. Co	ash- tup; if f.p. Changes during Evaporation give date -non-explosive OWER; upper Es; noX TION TEMPERATURE ofnon-flammable FIRE OR ABNORMAL TEMPERATURES? flammable ondra
B. C. D. F. G. IN	-does not fl FLASHPOINT °F: CLOSED CUP; OPEN CO EXPLOSIVE LIMITS (% VOL. AIR): SUSCEPTIBILITY TO SPONTANEOUS HEATINGS: FIRE POINT °F non-flammable; AUTO IGNI VAPOR DENSITY Same as water WHAT PRODUCTS MIGHT BE FORMED IN THE EVENT OF SUITABLE EXTINGUISHING AGENTS: non- FORMATION FURNISHED BY: Richard C. Co TLE: Chief Chemist	ash- up; IF F.P. CHANGES DURING EVAPORATION GIVE DAT -non-explosive OWER; UPPER ES; NOX ITION TEMPERATURE °F non-flammable FIRE OR ABNORMAL TEMPERATURES? flammable ondra :
A. B. C. D. F. G. IN	-does not fl FLASHPOINT °F: CLOSED CUP; OPEN CO EXPLOSIVE LIMITS (% VOL. AIR): SUSCEPTIBILITY TO SPONTANEOUS HEATINGS: FIRE POINT °F non-flammable; AUTO IGNI VAPOR DENSITY Same as water WHAT PRODUCTS MIGHT BE FORMED IN THE EVENT OF SUITABLE EXTINGUISHING AGENTS: non- FORMATION FURNISHED BY: Richard C. Co TLE: Chief Chemist	ash- up; IF F.P. CHANGES DURING EVAPORATION GIVE DATE -non-explosive OWER; UPPER ES; NOX ITION TEMPERATURE °F non-flammable FIRE OR ABNORMAL TEMPERATURES? flammable ondra : .c. Chemicals Div., CEE-BEE CHEMICAL

NOTE: INFORMATION IN REGARD TO A MATERIAL'S COMPOSITION WILL BE USED FOR THE PURPOSE OF COMPLYING WITH LOCAL, STATE AND FEDERAL ORDINANCES, LAWS AND CODES, AND REQUIREMENTS OF GOVERNMENTAL AGENCIES.

THE COMPLETED FORM SHOULD BE RETURNED TO PURCHASING, DOUGLAS AIRCRAFT DIVISION, LONG BEACH, CALIF. 90801.

NO

FOR MIXTURES GIVE	THE PERCENTAGE COMPOSIT			
	COMPOUND		PERCEN	Т
Sodium hydi	\		30-35	
Sulfur	LOXIGE		10-15	A140-00-00-00-00-00-00-00-00-00-00-00-00-0
Water			Baland	e
<u>re:</u> generalizations: E not adequate for t	SUCH AS PETROLEUM HYDRO	CARBONS, ALCOHOL, N. PROPER CHEMICAL	KETONES, CHLORINATED F NAMES MUST BE KNOWN.	IYDROCARBONS, 'ETC.,
H. DOES THE MATERIAL	GENERATE HEAT THROUGH	POLYMERIZATION OR	condensation? No	
				1 1 1 1
PRECAUTIONS FOR NORM	MAL CONDITIONS OF USE:	Avoid cont	act with skin a	ind clothing.
				
	TIVE EQUIPMENT: Fac	a chiald ru	bbor gloves and	laprope
DECOMMENDED DECTEC	TIVE FOUIDMENT. PAC			
	osed Cup None ;0			
	osed CUP None ;o	PEN CUP		ING EVAPORATION GIVI
A. FLASHPOINT F; CLO B. EXPLOSIVE LIMITS (%	osed CUP None ;o	PEN CUP	;IF F.P. CHANGES DURI	ing evaporation givi
A. FLASHPOINT F; CLO B. EXPLOSIVE LIMITS (%) C. SUSCEPTIBILITY TO	OSED CUP None ;O	PEN CUP	;IF F.P. CHANGES DURI WN ;UPPER	ing evaporation give interpolation give inte
A. FLASHPOINT °F; CLO B. EXPLOSIVE LIMITS (% C. SUSCEPTIBILITY TO: D. FIRE POINT °F UT	SED CUP None; o VOL. AIR): SPONTANEOUS HEATINGS: nknown; AUT	PEN CUP	;IF F.P. CHANGES DURI WN ;UPPER	ing evaporation give interpolation give inte
A. FLASHPOINT °F: CLO B. EXPLOSIVE LIMITS (% C. SUSCEPTIBILITY TO D. FIRE POINT °F UT E. VAPOR DENSITY GI F. WHAT PRODUCTS MIG	SED CUP None ;0 VOL. AIR): SPONTANEOUS HEATINGS:	PEN CUP	;if f.p. changes duri wn ;upper ; no ure °fUnknown	Ing evaporation give Inknown x
A. FLASHPOINT °F; CLO B. EXPLOSIVE LIMITS (% C. SUSCEPTIBILITY TO: D. FIRE POINT °F UT E. VAPOR DENSITY G1 F. WHAT PRODUCTS MIG	osed CUP None ; o % VOL. AIR): SPONTANEOUS HEATINGS: nknown ; AUT reater than air SHT BE FORMED IN THE EVEN	PEN CUP	;if f.p. changes duri wn ;upper ; no ure °fUnknown	Ing evaporation give Inknown x
B. EXPLOSIVE LIMITS (% C. SUSCEPTIBILITY TO D. FIRE POINT °F UT E. VAPOR DENSITY G1 F. WHAT PRODUCTS MIG S1 G. SUITABLE EXTINGUIS	SED CUP None; over the second	PEN CUP LOWER <u>Unkno</u> YES O IGNITION TEMPERATOR ABNOR NT OF FIRE OR ABNOR dioxide	;if f.p. changes duri wn ;upper ; no ure °fUnknown	Ing evaporation give Inknown x
A. FLASHPOINT °F; CLO B. EXPLOSIVE LIMITS (% C. SUSCEPTIBILITY TO D. FIRE POINT °F UT E. VAPOR DENSITY G1 F. WHAT PRODUCTS MIG S1 G. SUITABLE EXTINGUIS INFORMATION FURNISHE	SED CUP None ; O VOL. AIR): SPONTANEOUS HEATINGS: nknown ; AUT reater than air SHING AGENTS: Carbon SHING AGENTS: Carbon CD BY: A. E. Za Chief Tec	LOWER Unkno YES O IGNITION TEMPERATION OF FIRE OR ABNOR dioxide elke hnical Servi	wn; upper; no	Ing evaporation give Inknown x
A. FLASHPOINT °F; CLO B. EXPLOSIVE LIMITS (% C. SUSCEPTIBILITY TO D. FIRE POINT °F UT E. VAPOR DENSITY GI F. WHAT PRODUCTS MIG SU G. SUITABLE EXTINGUIS INFORMATION FURNISHE TITLE:	SED CUP None ; O VOL. AIR): SPONTANEOUS HEATINGS: nknown ; AUT reater than air SHING AGENTS: Carbon ED BY: A. E. Za Chief Tec Turco Pro	LOWER Unkno YES OIGNITION TEMPERATION OF FIRE OR ABNOR dioxide elke hnical Serviducts, Inc.	wn ; upper	Ing Evaporation Givi
A. FLASHPOINT °F: CLO B. EXPLOSIVE LIMITS (% C. SUSCEPTIBILITY TO D. FIRE POINT °F UT E. VAPOR DENSITY G1 F. WHAT PRODUCTS MIG	SED CUP None ; O VOL. AIR): SPONTANEOUS HEATINGS: nknown ; AUT reater than air SHING AGENTS: Carbon ED BY: A. E. Za Chief Tec Turco Pro	LOWER Unkno YES OIGNITION TEMPERATION OF FIRE OR ABNOR dioxide elke hnical Serviducts, Inc.	wn; upper; no	Ing Evaporation Givi

F. DOES THE MATERIAL DECOMPOSE EN EXPOSED TO AIR? WATER? HEAT? STRONG

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AZARDOUS MATERIALS DATA SHE

QPL 1863

PRODUCT NAME, NUMBER, SYNONYM: Turcoform DACO 4L Etchant FEB 1 (1902
Turco Products, Inc.
MANUFACTURER'S ADDRESS: 24600 So. Main St., Wilmington, Calif. 90745
PROCEDURE IN CASE OF BREAKAGE OR LEAKAGE: Flush to sewer with water.
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transportation and storage requirements: Transport and store in closed container at temperatures between 40°F and 120°F.
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A. SKIN CONTACT: Wash with soap and water.
A. SKIN CONTACT: Wash with soap and water.
B. EYE CONTACT: Flush with copious amounts of water. Obtain medical
attention.
C. INHALATION: Remove to fresh air
Do not induce vomiting. Give water, egg whites or 2 oz. olive oil.
PHYSIOLOGICAL PROPERTIES:
A. ACUTE ORAL TOXICITY: Severe
B. LOCAL EFFECTS UPON EYES: Severe caustic burns
C. LOCAL EFFECTS UPON SKIN: Severe cuastic burns
D. ESTIMATE OF ACUTE HAZARD BY INHALATION (VOLATILE MATERIALS): Moderate
E. WARNING PROPERTIES (ODOR, IRRITATION TO EYES, NOSE OR THROAT): Irritation of nose
F. ESTIMATED THRESHOLD LIMIT VALUE (IF NOT ON CURRENT LIST BY AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIBUTION HYGIENISTS): Unknown
CHEMICAL AND PHYSICAL PROPERTIES:
A. SPECIFIC GRAVITY (WATER = 1) 1.41 B. VAPOR DENSITY (AIR =1) more that
C. VAPOR PRESSURE mm Hg AT 25°C. Less than 25 mm D. pH 13+
E. CORROSIVE ACTION ON COMMON MATERIALS SUCH AS: ALUMINUM, MAGNESIUM, PLEXIGLAS, RUBBER, LACQUERS, ENAMELS, FAB Corrosive to aluminum and paint